



Standards *Actions*

DOE Projects Initiated

The following DOE technical standards projects were recently initiated. If you are interested in participating in the development of these standards, please contact the persons listed below.

- *General Employee Radiological Training*, Project Number TRNG-0001; Peter O'Connell, EH-52; 301-903-5641, FAX 301-903-7773, Peter.O'Connell@hq.doe.gov.
- *Radiological Worker Training*, Project Number TRNG-0002; Peter O'Connell, EH-52; 301-903-5641, FAX 301-903-7773, Peter.O'Connell@hq.doe.gov.
- *Radiological Control Technician Training*, Project Number TRNG-0003; Peter O'Connell, EH-52; 301-903-5641, FAX 301-903-7773, Peter.O'Connell@hq.doe.gov.

DOE Documents Recently Published

The following DOE documents have recently been published:

- *DOE-HDBK-1202-97*, *Good Practices for Teamwork Training and Diagnostic Skills Development*, June 1997.
- *DOE-HDBK-1205-97*, *Guide to Good Practices for the Design, Development, and Implementation of Examinations*, June 1997.

DOE employees and DOE contractors may obtain copies from the DOE Office of Scientific and Technical Information (OSTI), P.O. Box 62, Oak Ridge, Tennessee 37831; telephone 423-576-8401 or FAX 423-576-2865.

Subcontractors and the general public may obtain copies from the U.S. Department of Commerce, Technology Administration, National Technical Information Service, Springfield, Virginia 22161; telephone 703-487-4650 or FAX 703-321-8547.

Copies of DOE technical standards (i.e., DOE Standards, Specifications, Handbooks, and Technical Standards Lists) are also available on the Internet at the address shown at the bottom of this page.

Non-Government Standards

American National Standards Institute

The American National Standards Institute (ANSI) publishes coordination activities of non-Government standards (NGS) biweekly in *ANSI Standards Action*. Please note that distribution of *ANSI Standards Action* is normally made only to individual members of ANSI or in group

mailings to site members of ANSI. For information on site membership, ask your local ANSI contact. For information on individual or group ANSI membership, call Susan Bose at 212-642-4948, Email sbose@ansi.org. For further information on distribution policies of ANSI publications, call the ANSI distribution manager at 212-642-4952.

Copies of *ANSI Standards Action* and ANSI-published documents may be obtained from ANSI, 11 West 42nd Street, New York, NY 10036 (212-642-4900, FAX 212-302-1286). Comments on listed draft standards may be submitted by contacting the standards developing organization for information.

The following listings are extracted from *ANSI Standards Action* and are representative of NGS development activities that may be relevant to DOE operations. Refer to *ANSI Standards Action* for a complete listing of changes and new publications, standards developing organizations, and additional information about submitting comments.

Technical Standards Program Document Status as of 9/30/97

In Conversion	In Preparation	Out for Comment	Published in Past 30 Days
4	38	22	2

Total in process = 60

The following American National Standards are currently in coordination:

- AGMA 9004-A, *Flexible Couplings - Mass Elastic Properties and Other Characteristics* (new standard); comments due November 11, 1997.
- ALI ALCTV, *Automotive Lifts - Safety Requirements for the Construction, Care, and Use* (revision and redesignation of ANSI/ALI B153.1-1990); comments due November 11, 1997.
- ASME BPVC Revision: 1997 Addenda, *ASME Boiler and Pressure Vessel Code* (revision of 5/9/97 Meeting); comments due November 11, 1997.
- C78.1432, *Electric Lamp - Tungsten-Halogen Lamps with GZ9.5 Two-Pin, Prefocus Bases and 36.5 mm Nominal Light Center Length* (new standard); comments due November 11, 1997.
- C82.9x, *High-Intensity-Discharge and Low-Pressure Sodium Lamps, Ballasts and Transformers - Definitions* (supplement to ANSI C82.9-1996); comments due November 11, 1997.
- EIA SP-3458 (if approved, to be published as ANSI/EIA 700DA00), *Discrete Contact Blank Detail Specification* (new standard); comments due November 11, 1997.
- IEEE C37-48-1997, *IEEE Guide for Application, Operation and Maintenance of High-Voltage Fuses, Distribution Enclosed Single-Pole Air Switches, Fuse Disconnecting Switches, and Accessories* [revision of ANSI/IEEE C37.48-1987 (R1993)]; comments due November 11, 1997.



Visit the Technical Standards Program Web Site: <http://apollo.osti.gov/html/techstds/techstds.html>

- IEEE 692-1997, *Standard Criteria for Security Systems for Nuclear Power Generating Stations* (new standard); comments due November 11, 1997.
- IEEE 741-1997, *Standard Criteria for the Protection of Class 1E Power Systems and Equipment in Nuclear Power Generating Stations* (revision of ANSI/IEEE 741-1990); comments due November 11, 1997.
- IEEE 1076.3-1997, *Standard Synthesis Package for IEEE 1076* (new standard); comments due November 11, 1997.
- IEEE 1204-1997, *Guide for Planning DC Links Terminating at AC Locations Having Low Short-Circuit Capacities, Part I: AC/DC Interaction Phenomena, Part II: Planning Guide* (new standard); comments due November 11, 1997.
- IEEE 1243-1997, *Design Guide for Improving the Lightning Performance of Transmission Lines* (new standard); comments due November 11, 1997.
- IEEE 1246-1997, *Guide for Temporary Protective Grounding Systems Used in Substations* (new standard); comments due November 11, 1997.
- IEEE 1268-1997, *Guide for the Safe Installation of Mobile Substation Equipment* (new standard); comments due November 11, 1997.
- IEEE 1377-1997, *Utility Industry End Device Data Tables* (new standard); comments due November 11, 1997.
- IEEE 1378-1997, *Guide for Commissioning High-Voltage Direct-Current Converter Stations and Associated Transmission Systems* (new standard); comments due November 11, 1997.
- IEEE 1410-1997, *Guide for Improving the Lighting Performance of Electric Power Overhead Distribution Lines* (new standard); comments due November 11, 1997.
- T1.258, *Telecommunications - OAM&P - Information Model and Services for Interfaces between Operations Systems across Jurisdictional Boundaries to Support Service Level Alarm Reporting and Performance Monitoring* (new standard); comments due November 11, 1997.
- T1.414, *Telecommunications - Network to Customer Installation Interfaces - Enhanced 911 Analog Voicegrade PSAP Access Using Loop Reverse-Battery Signaling* (new standard); comments due November 11, 1997.
- TIA SP-3580-A (if approved, to be published as ANSI J-STD-025), *Lawfully Authorized Electronic Surveillance* (new standard); comments due November 11, 1997.
- TIA/EIA SP-3177 (if approved, to be published as ANSI/TIA/EIA 526-27), *Procedure for System-Level Temperature Cycle Endurance Test* (new standard); comments due November 11, 1997.
- UL 67, *Standard for Safety for Panelboards* (revision of ANSI/UL 67-1993); comments due November 11, 1997.
- UL 1682, *Standard for Safety for Plugs, Receptacles, and Cable Connectors of the Pin and Sleeve Type* (new standard); comments due November 11, 1997.
- UL 1739, *Standard for Safety for Pilot-Operated Pressure-Control Valves for Fire Protection Service* (revision of ANSI/UL 1739-1988); comments due November 11, 1997.

The following international standards are currently in coordination (comment due dates follow each entry):

- HD 384.4.41 S2: 1996/prA1: 1997, *Electrical installations of buildings - Part 4: Protection for Safety - Chapter 41: Protection against electric shock* (IEC 60364-4-41: 1992/A1: 1996, modified) - December 13, 1997.
- ISO/DIS 3310-1, *Test sieves - Requirements and tests - Part 1: Metal wire cloth sieves* (revision of ISO 3310-1: 1990) - November 14, 1997.

- ISO/DIS 7203-3, *Fire extinguishing media - Foam concentrates - Part 3: Specification of low-expansion foam concentrates for top application to water-miscible liquids* - November 21, 1997.
- ISO/DIS 8611-2, *Pallets for through materials handling - Part 2: Performance requirements* (revision of ISO 10233: 1989) - November 7, 1997.
- ISO/DIS 9712, *Non-destructive testing - Qualification and certification of personnel* (revision of ISO 9712: 1992) - November 21, 1997.
- ISO/DIS 12176-2, *Plastics pipes and fittings - Equipment for fusion jointing polyethylene systems - Part 2: Electrofusion* - November 21, 1997.
- ISO/DIS 13407, *Human-centred design processes for interactive systems* - November 21, 1997.
- prEN 1070 REVIEW, *Safety of machinery - Terminology* - November 19, 1997.
- prEN 1096-3, *Glass in building - Coated glass - Part 3: Test method for durability of class C and D coatings* - December 24, 1997.
- prEN 12354-3, *Building acoustics - Estimation of acoustic performance of buildings from the performance of products - Part 3: Airborne sound insulation against outdoor sound* - November 19, 1997.
- prEN 12978, *Industrial, commercial and garage doors and gates - Safety devices - Requirements and test methods* - December 24, 1997.
- prEN 12982, *Industrial valves - End-to-end dimensions for butt welding end valves* - January 7, 1998.
- prEN 13000, *Cranes - Safety - Mobile cranes* - January 7, 1998.
- prEN 45544-4, *Workplace atmospheres - Electrical apparatus used for the direct detection and concentration measurement of toxic gases and vapours - Part 4: Guide for selection, installation, use and maintenance* - December 13, 1997.

The following newly published international standards are available from ANSI:

- IEC 61010-3-1: 1997, *Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 3-1: Conformity verification report for IEC 61010-1*.
- IEC 61034-1: 1997, *Measurement of smoke density of cables burning under defined conditions - Part 1: Test apparatus*.
- IEC 61124: 1997, *Reliability testing - Compliance tests for constant failure rate and constant failure intensity*.
- IEC 61774: 1997, *Overhead lines - Meteorological data for assessing climatic loads*.
- IEC 61810-7: 1997, *Electromechanical all-or-nothing relays - Part 7: Test and measurement procedures*.
- IEC /GUIDE 104: 1997, *The preparation of safety publications and the use of basic safety publications and group safety publications*.

American Society for Testing and Materials

Standards activities of the American Society for Testing and Materials (ASTM) are published monthly in *ASTM Standardization News*. Orders for subscriptions or single copies of *ASTM Standardization News* may be submitted to ASTM, Subscription Dept.-SN, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959. For information regarding ASTM membership, contact the Membership Services Department at 610-832-9691 (FAX 610-832-9667). ASTM publications may be ordered from the ASTM Customer Services Department at 610-832-9585 (FAX 610-832-9555). Comments on listed draft standards may be submitted by contacting the ASTM Standards Coordination Department at the above address. Questions may be addressed to the Technical

Committee Operations Division at 610-832-9672 (FAX 610-832-9666). ASTM has developed a World Wide Web home page at the following URL: <http://www.astm.org>. The following listings are extracted from ASTM Standardization News and are representative of NGS development activities that may be relevant to DOE operations.

The following ASTM standards are currently in coordination: (the due date for all items is October 10, 1997).

- New Standard, *Guide for Conducting Terrestrial Plant Toxicity Tests* (Ref. Z3111Z).
- New Standard, *Guide to Selection of Purging and Sampling Devices for Ground-Water Monitoring Wells* (Ref. Z3754Z).
- New Standard, *Specification for "Twist Off" Type Tension Control Structural Bolt/Nut/Washer Assemblies, Steel, Heat Treated, 120/105 Ksi Minimum Tensile Strength* (Ref. Z4351Z).
- New Standard, *Test Method for Stability of Insulating Oils of Petroleum Origin Under Electrical Discharge* (Ref. Z5250Z).
- New Standard, *Test Method for Determination of Reference Temperature T for Ferritic Steels in the Transition Range* (Ref. Z5598Z).
- New Standard, *Test Method for Measurement of Turbidity in Mineral Insulating Oil of Petroleum Origin* (Ref. Z5680Z).
- New Standard, *Specification for Molded Glass Fiber Reinforced Gypsum Parts* (Ref. Z5749Z).
- New Standard, *Guide for Direct Push Soil Sampling for Environmental Site Characterization* (Ref. Z5847Z).
- New Standard, *Specification for Pyrolytic and Vacuum Deposition Coatings on Glass* (Ref. Z5928Z).
- New Standard, *Guide (Checklist) for Data and Information Needs for Conducting An Ecological Risk Assessment at Contaminated Sites* (Ref. Z6300Z).
- New Standard, *Guide for Evaluating Data Acquisition Systems Used in Cyclic Fatigue and Fracture Mechanics Testing* (Ref. Z6344Z).
- New Standard, *Specification for Niobium-Titanium Alloy Billets, Bar, and Rod for Superconducting Applications* (Ref. Z6353Z).
- New Standard, *Practice for Cone Penetrometer Technology Characterization of Petroleum Contaminated Sites With Nitrogen Laser-Induced Fluorescence* (Ref. Z6418Z).
- New Standard, *Practice for Conducting and Evaluating Laboratory Corrosion Tests in Soils* (Ref. Z6499Z).
- New Standard, *Practice for Use of Terms Relating to the Development and Evaluation of Methods for Chemical Analysis* (Ref. Z6519Z).
- New Standard, *Specification for Poly(Vinyl Chloride) (PVC) Plastic Schedule 40 Drainage and DWV Fabricated Fittings* (Ref. Z6687Z).
- New Standard, *Practice for Testing Chemical Resistant Broadcast and Slurry Broadcast Resin Monolithic Floor Surfacing* (Ref. Z6716Z).
- New Standard, *Practice for Calculating Bending Strength Design Factors for Fire Retardant-Treated Plywood Roof Sheathing* (Ref. Z6799Z).
- New Standard, *Guide for Monitoring and Maintenance of Protective Coatings Within Service Level I Areas of Nuclear Power Generation Facilities* (Ref. Z6837Z).
- New Standard, *Practice for Compiling and Writing a Terminology* (Ref. Z6935Z).
- New Standard, *Terminology Relating to Terminology* (Ref. Z6936Z).
- Provisional, *Guide for Expedited Site Characterization of Hazardous Waste Contaminated Sites*.
- B 163-97, *Specification for Seamless Nickel and Nickel Alloy Condenser and Heat-Exchanger Tubes* (revised standard).
- B 230-89, *Specification for Aluminum 1350-H19 Wire for Electrical Purposes* (revised standard).
- B 232M-92, *Specification for Concentric-Lay-Stranded Aluminum Conductors, Coated Steel-Reinforced* (revised standard).
- B 338-95, *Specification for Seamless and Welded Titanium and Titanium Alloy Tubes for Condensers and Heat Exchangers* (revised standard).
- B 351-92, *Specification for Hot-Rolled and Cold-Finished Zirconium and Zirconium Alloy Bars, Rod, and Wire for Nuclear Application* (revised standard).
- B 352-92, *Specification for Zirconium and Zirconium Alloy Sheet, Strip, and Plate for Nuclear Application* (revised standard).
- B 462-96, *Specification for Forged or Rolled UNS N08020, UNS N08024, UNS N08026, UNS N08367 and UNS R20033 Alloy Pipe Flanges, Forged Fittings, and Valves and Parts for Corrosive High-Temperature Service* (revised standard).
- C 162-96a, *Terminology of Glass and Glass Products* (revised standard).
- C 955-97, *Specification for Load-Bearing (Transverse and Axial) Steel Studs, Runners (Tracks), and Bracing or Bridging for Screw Application of Gypsum Board and Metal Plaster Bases* (revised standard).
- D 198-94, *Methods of Static Tests of Timber in Structural Sizes* (revised standard).
- D 420-93, *Guide to Site Characterization for Engineering, Design, and Construction Purposes* (revised standard).
- D 924-92, *Test Method for Dissipation Factor (Or Power Factor) and Relative Permittivity (Dielectric Constant) of Electrical Insulating Liquids* (revised standard).
- D 5055-97, *Specification for Establishing and Monitoring Structural Capacities of Prefabricated Wood I-Joist* (revised standard).
- E 943-97a, *Terminology Relating to Biological Effects and Environmental Fate* (revised standard).
- E 974-83(1995), *Guide for Specifying Thermal Performance of Geothermal Power Systems* (revised standard).
- E 1008-84(1991), *Practice for Installation, Inspection, and Maintenance of Valve Body Pressure Relief, Methods for Geothermal and Other High-Temperature Applications* (revised standard).
- E 1171-93, *Test Method for Photovoltaic Modules in Cyclic Temperature and Humidity Environments* (revised standard).
- E 1875, *Test Method for Dynamic Young's Modulus, Shear Modulus and Poisson's Ratio by Sonic Resonance* (new standard).
- G 40-97, *Terminology Relating to Wear and Erosion* (revised standard).

The following newly published standards are available from ASTM:

- B 830-97, *Specification for Uniform Test Methods and Frequency* (revised standard).
- C 1322-96a, *Practice for Fractography and Characterization of Fracture Origins in Advanced Ceramics* (revised standard).
- D 2942-96, *Test Method for Total Acid Acceptance of Halogenated Organic Solvents (Nonreflux Methods)* (revised standard).
- D 6051-96, *Guide for Composite Sampling and Field Subsampling for Environmental Waste Management Activities* (new standard).

- D 6063-96a, *Guide for Sampling of Drums and Similar Containers by Field Personnel* (new standard).
- D 6071-96, *Test Method for Low-Level Sodium in High-Purity Water by Graphite Furnace Atomic Absorption Spectroscopy* (new standard).
- F 1780-97, *Guide for Estimating Oil Spill Recovery System Effectiveness* (new standard).
- PS 88-97, *Practice for Determination of Lead in Paint, Settled Dust, Soil, and Air Particulate by Field-Portable Electroanalysis* (new standard).

American National Standards Projects Initiated

The following is a list of proposed new American National Standards or revisions to existing American National Standards submitted to ANSI by accredited standards developers. DOE employees or contractors interested in participating in these activities should contact the appropriate standards developing organization. DOE-TSL-4 lists the DOE representatives on NGS committees. If no DOE representative is listed, contact the TSPO for information on participating in NGS activities.

American Society for Testing and Materials

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- ASTM Z6367Z, *Provisional Test Method for Evaluating the Tensile-Adhesion Performance of an Exterior Insulation and Finish System (EIFS)* (new standard).

Underwriters Laboratories, Inc.

Office: 333 Pfingsten Road
Northbrook, IL 60062-2096
Fax: 847-509-6217
E-mail: goldm@ul.com
Contact: Mitchell Gold

- UL 2182, *Standard for Safety Refrigerants* (new standard).

Comments, Questions, and Addresses

Comments: If you have any questions or comments, please contact Rick Serbu, EH-31, Manager, DOE Technical Standards Program Office (TSPO), 301-903-2856, FAX 301-903-6172, Email

Richard.Serbu@eh.doe.gov. If you have any questions or comments on DOE standards projects, please contact Don Spellman, Oak Ridge National Laboratory (ORNL), 423-574-7891, FAX 423-574-0382, Email spellmandj@ornl.gov.

Addresses: To update our distribution list, please contact Marty Marchbanks, ORNL, 423-241-3658, FAX 423- 574-0382, Email mmf@ornl.gov.

The TSPO would like to be kept informed of the status of technical standards that are being prepared or coordinated for DOE. Please provide this information to the TSPO at 423-574-7886, Email lj8@ornl.gov.



Standards *Actions*

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